	Application No.	Applicant(s)
Nation of Allowate 184	10/766,040	TSUBOI ET AL.
Notice of Allowability	Examiner	Art Unit
	Joshua L. Pritchett	2872
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>Amendment filed May 25, 2006</u> .		
2. The allowed claim(s) is/are 19-29.		
<ul> <li>3.   Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)   All   b)   Some*   c)   None   of the:</li> <li>1.   Certified copies of the priority documents have been received.</li> </ul>		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of		
Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)  1. Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application (PTO-152)
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	(PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	18), 7. Examiner's Amendo	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
<del></del>	9.  Other	

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**DETAILED ACTION** 

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This action is in response to Amendment filed May 25, 2006. Claims 19 and 29 have

been amended as requested by the applicant.

Response to Arguments

Applicant's arguments, see Amendment, filed May 25, 2006, with respect to claim19 and

29 have been fully considered and are persuasive. The rejection of claims 19 and 29 has been

withdrawn. The applicant amended claims 19 and 29 to clarify that the first portion (frame

body) and the second portion (electrode base) were upper and lower elements of a single inner

frame each of the upper and lower elements having separate torsion bars connecting to

corresponding portions of the outer frame.

Allowable Subject Matter

Claims 19-29 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claims 19 and 29, the prior art of record fails to teach or suggest a micromirror

unit comprising an inner frame including a upper first portion (or frame body in claim 19) and a

lower second portion (or electrode base in claim 19) and an insulating layer sandwiched between

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the first and second portion; an outer frame surrounding the inner frame including an upper first portion (or frame member in claim 19) and a lower second portion (or auxiliary portion in claim 19) and an insulating layer between the first and second portion; a mirror forming based with a mirror surface surrounded by the inner frame; an inner torsion connector between the first portion of the inner frame and the mirror forming base; and an outer torsion connector which connects the inner frame to the outer frame and defines an axis about the inner frame and the mirror forming based are rotated relative to the outer frame, the outer torsion connector having a width measured in a direction which is parallel to the mirror surface and perpendicular to the axis, wherein the width of the outer torsion connector is relatively great at a connecting portion to the inner frame and becomes gradually smaller from the inner frame toward the outer frame and wherein the outer torsion connector comprises a plurality of torsion bars connected at a same side of the inner frame, at least one of the torsion bars connecting the first portion of the inner frame to the first portion of the outer frame to provide a first electrical conducting path, at lest another of the torsion bars connecting the second portion of the inner frame to the second portion of the outer frame to provide a second electrical conducing path which is electrically separate from the first electrical conducing path.

The remaining claims depend from claim 19 and are allowable for the same reasons.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua L. Pritchett whose telephone number is 571-272-2318. The examiner can normally be reached on Monday - Friday 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew A. Dunn can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JLP #

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